

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111318\
 Data File : VX005958.D
 Acq On : 13 Nov 2018 19:27
 Operator : JC/MD
 Sample : J5931-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-181112

Quant Time: Nov 14 03:28:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	95395	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	133965	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	124862	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	60758	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	63543	57.94	ug/l	0.00
Spiked Amount			Recovery	=	115.88%	
35) Dibromofluoromethane	5.50	113	50793	55.75	ug/l	0.00
Spiked Amount			Recovery	=	111.50%	
50) Toluene-d8	8.71	98	163984	54.13	ug/l	0.00
Spiked Amount			Recovery	=	108.26%	
62) 4-Bromofluorobenzene	11.14	95	55792	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	

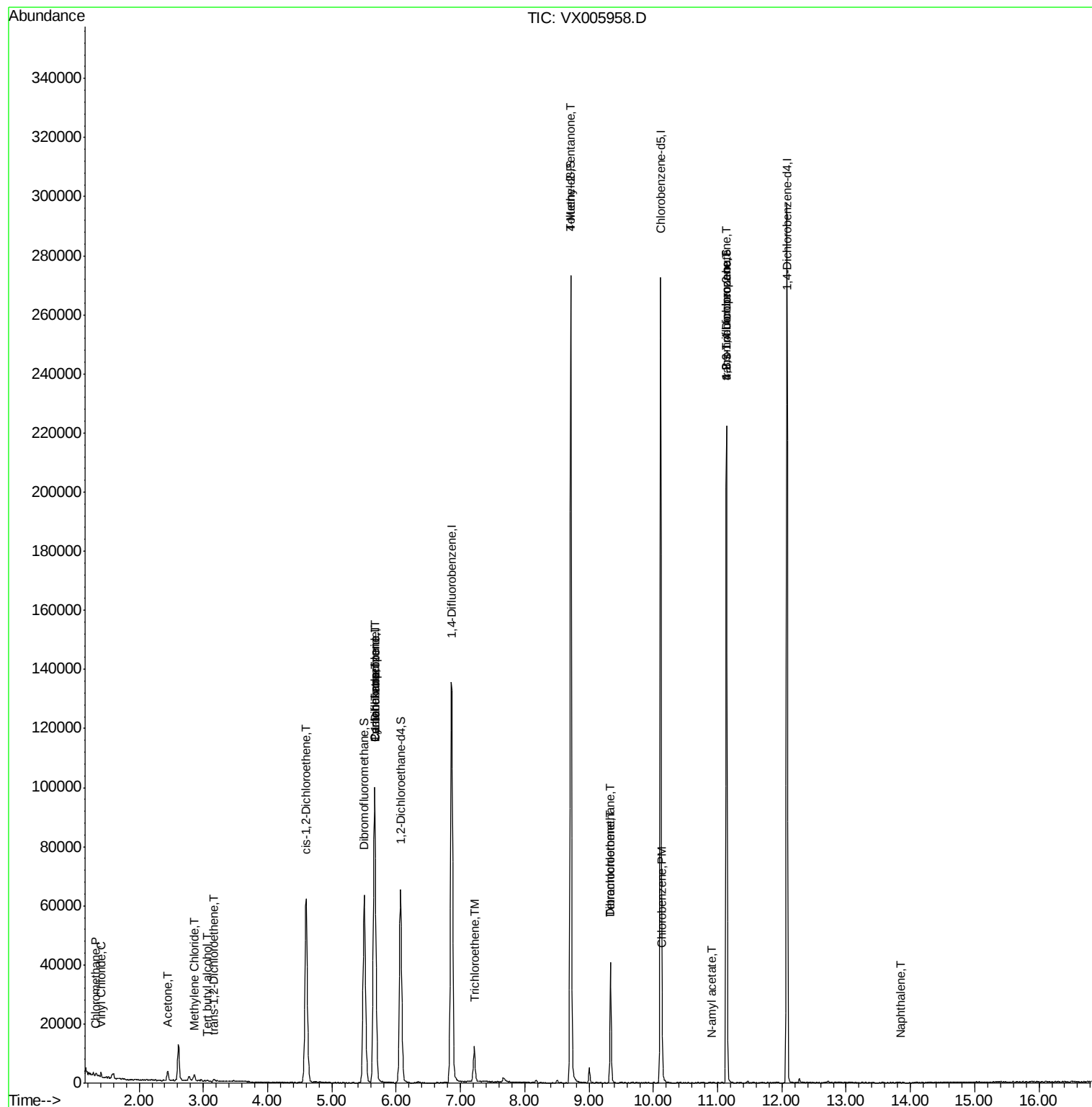
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	363	0.322	ug/l #	80
4) Vinyl Chloride	1.41	62	950	0.838	ug/l	99
11) Tert butyl alcohol	3.06	59	371	1.181	ug/l #	72
16) Acetone	2.44	43	3325	5.631	ug/l	95
18) Methyl Acetate	2.78	43	2105	Below Cal		94
20) Methylene Chloride	2.85	84	751	0.774	ug/l #	84
21) trans-1,2-Dichloroethene	3.17	96	270	0.304	ug/l #	74
27) cis-1,2-Dichloroethene	4.60	96	39455	40.178	ug/l	91
31) Cyclohexane	5.67	56	2017	1.320	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	7188	5.566	ug/l #	46
38) Carbon Tetrachloride	5.66	117	9306	7.198	ug/l #	17
44) Trichloroethene	7.21	130	4279	4.475	ug/l	96
51) 4-Methyl-2-Pentanone	8.71	43	805	0.519	ug/l #	1
60) Dibromochloromethane	9.34	129	7154	7.059	ug/l #	10
64) Tetrachloroethene	9.34	164	8077	7.598	ug/l	98
65) Chlorobenzene	10.14	112	3544	1.417	ug/l	96
74) N-amyl acetate	10.91	43	19	1.260	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	28260	22.843	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	28260	72.803	ug/l #	9
95) Naphthalene	13.84	128	92	1.198	ug/l #	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

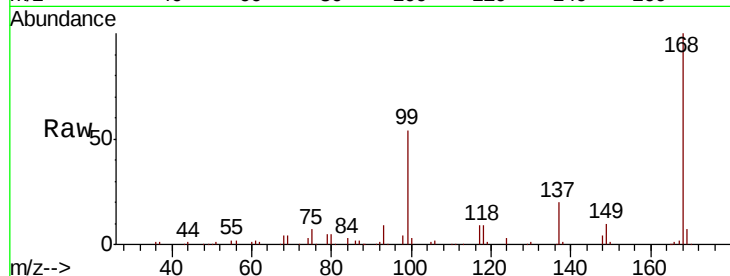
KY038PS027-181112

Tot Ion:168 Resp: 95395

Ion Ratio Lower Upper

168 100

99 53.8 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

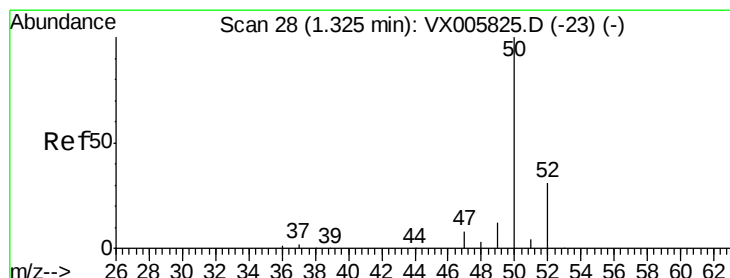
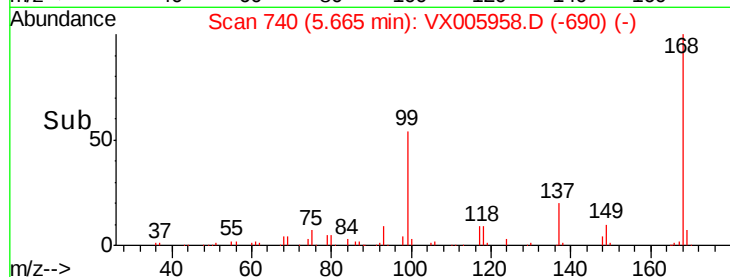
20000

10000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.322 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005958.D

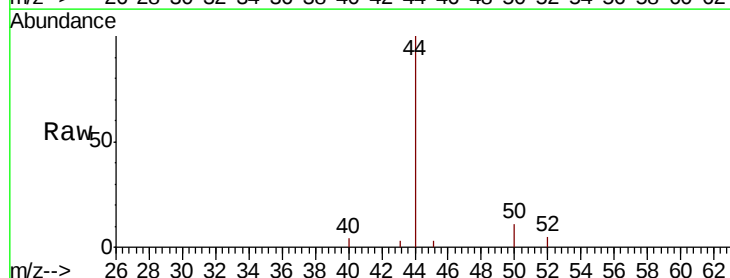
Acq: 13 Nov 2018 19:27

Tgt Ion: 50 Resp: 363

Ion Ratio Lower Upper

50 100

52 43.8 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

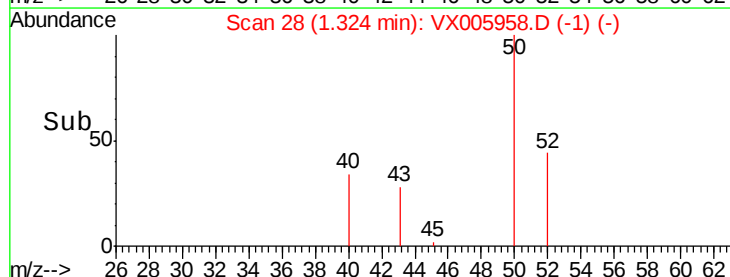
200

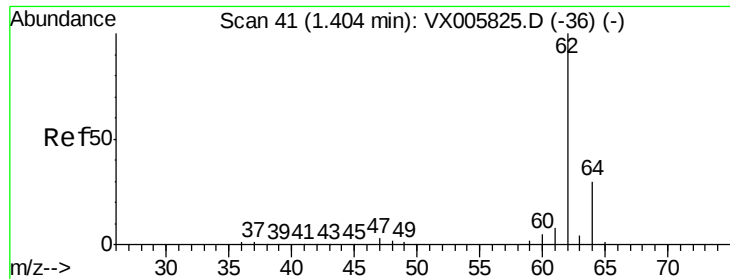
100

0

1.30 1.35

Time-->





#4

Vinyl Chloride

Concen: 0.838 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.01 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

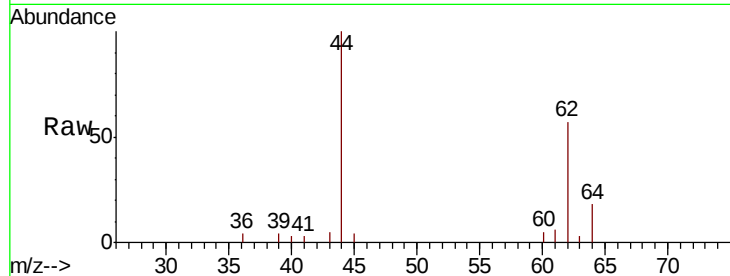
KY038PS027-181112

Tot Ion: 62 Resp: 950

Ion Ratio Lower Upper

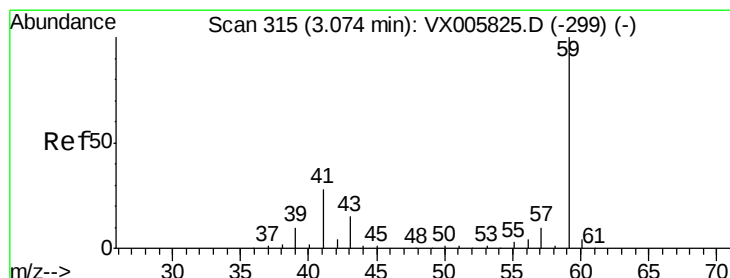
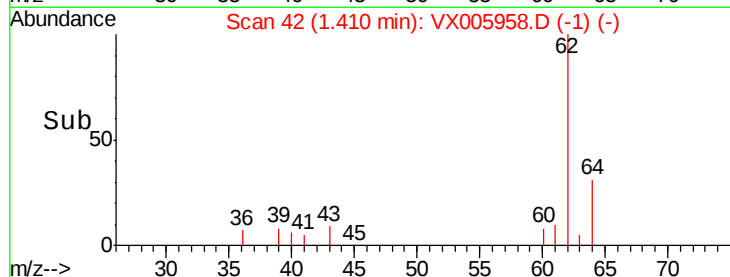
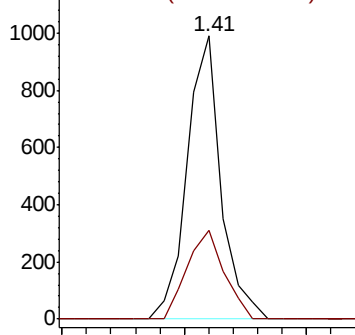
62 100

64 31.3 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 1.181 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX005958.D

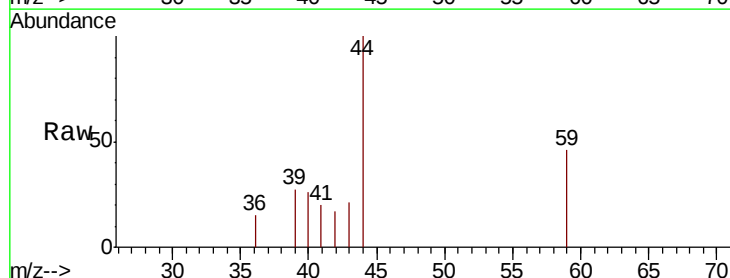
Acq: 13 Nov 2018 19:27

Tgt Ion: 59 Resp: 371

Ion Ratio Lower Upper

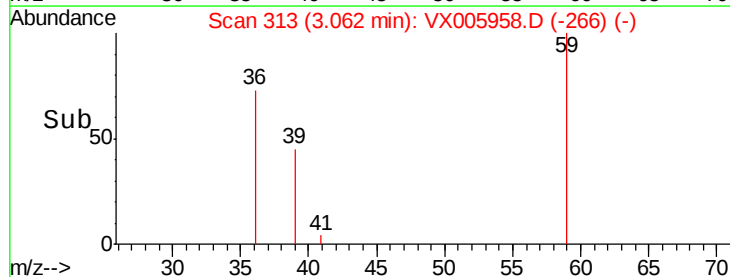
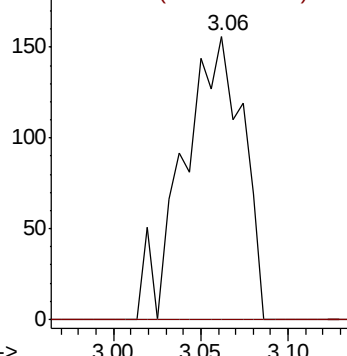
59 100

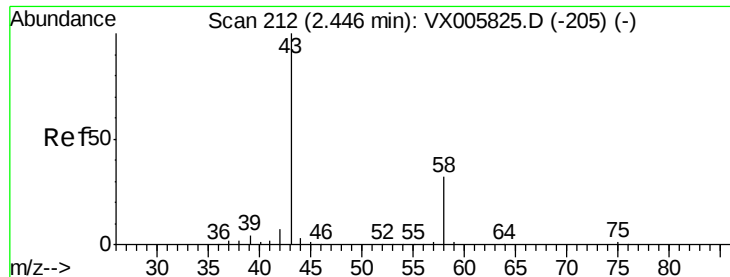
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 5.631 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

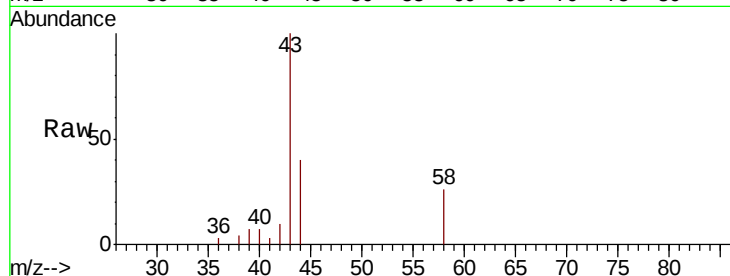
KY038PS027-181112

Tot Ion: 43 Resp: 3325

Ion Ratio Lower Upper

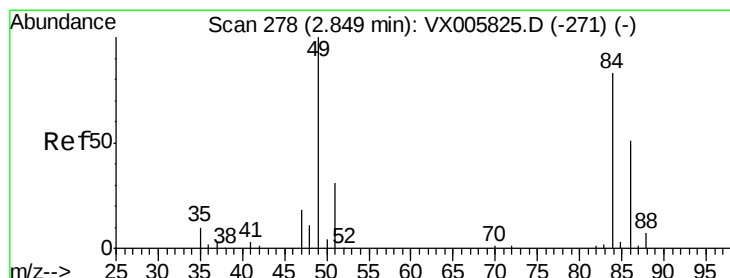
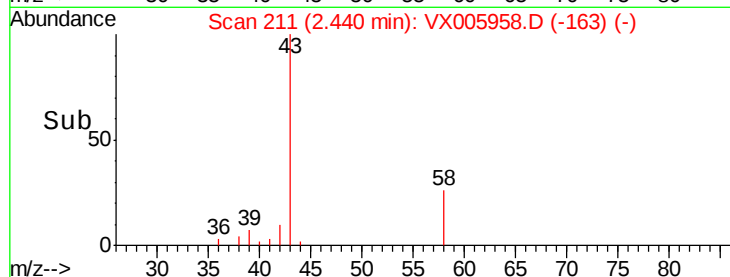
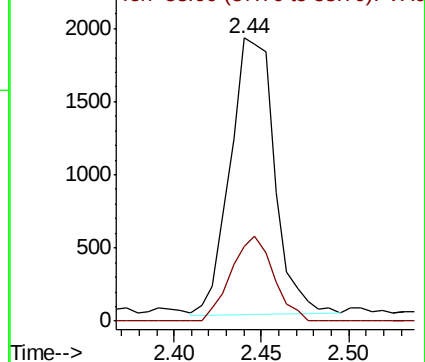
43 100

58 27.1 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.774 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.01 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Tgt Ion: 84 Resp: 751

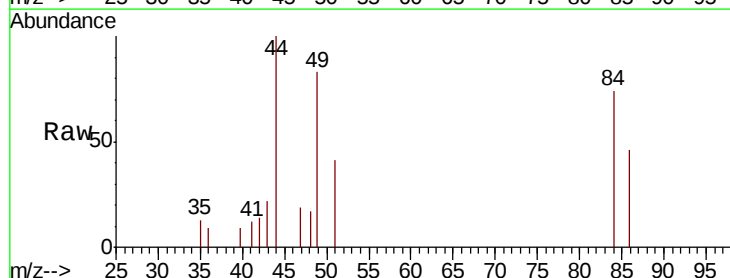
Ion Ratio Lower Upper

84 100

49 112.4 109.5 164.3

51 55.5 33.3 49.9#

86 62.2 52.7 79.1

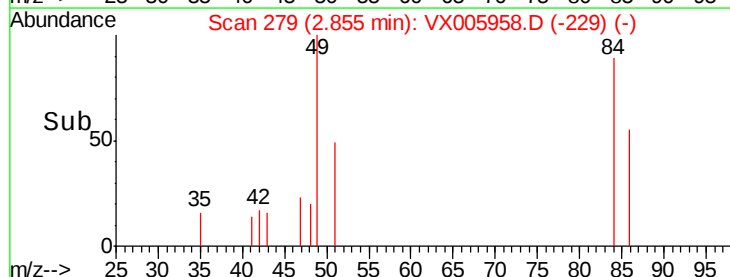
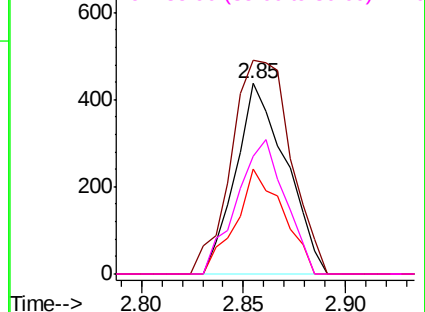


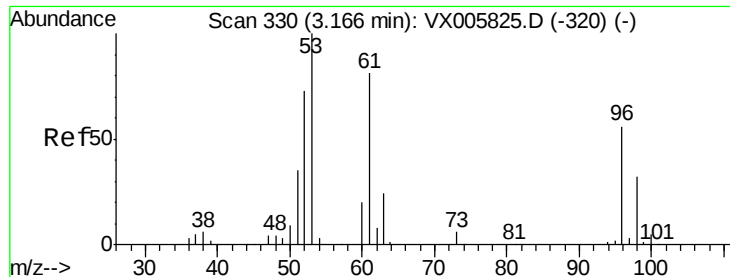
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.304 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-181112

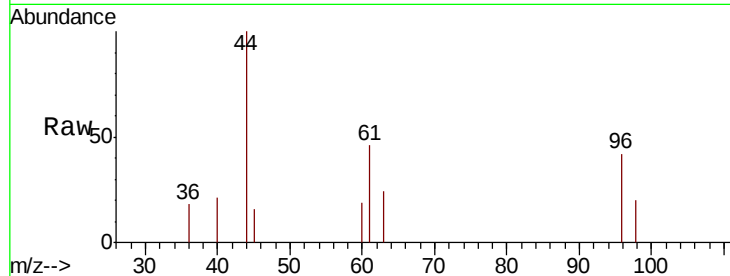
Tot Ion: 96 Resp: 270

Ion Ratio Lower Upper

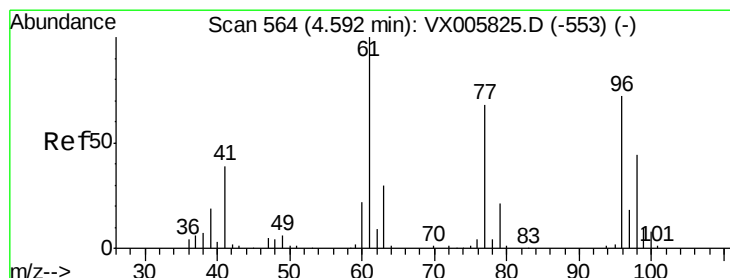
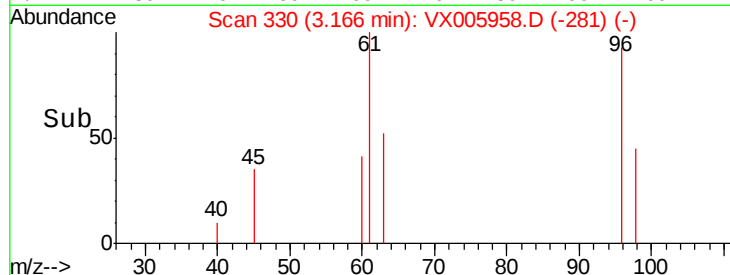
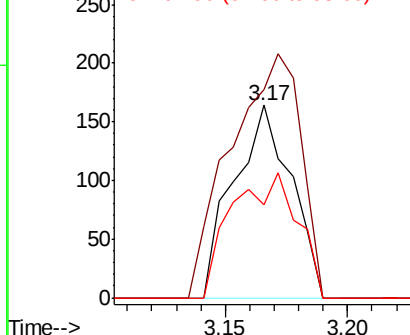
96 100

61 107.9 115.6 173.4#

98 48.2 50.2 75.2#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 40.178 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

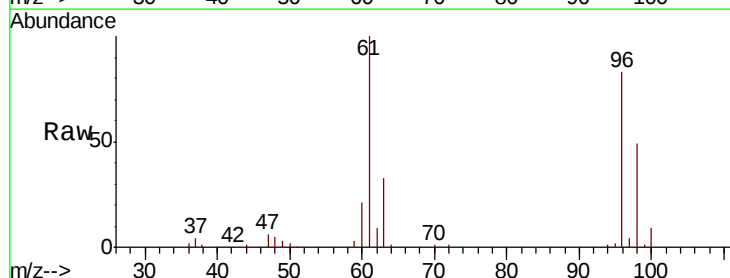
Tgt Ion: 96 Resp: 39455

Ion Ratio Lower Upper

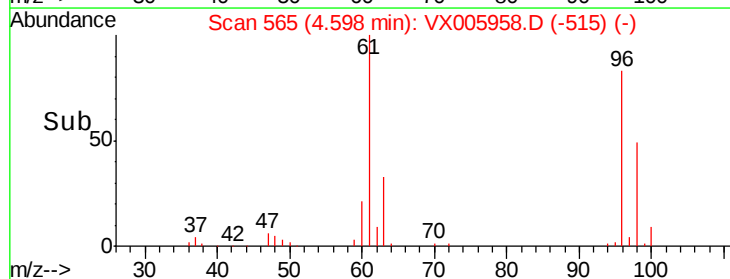
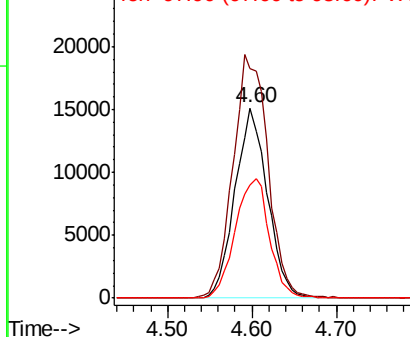
96 100

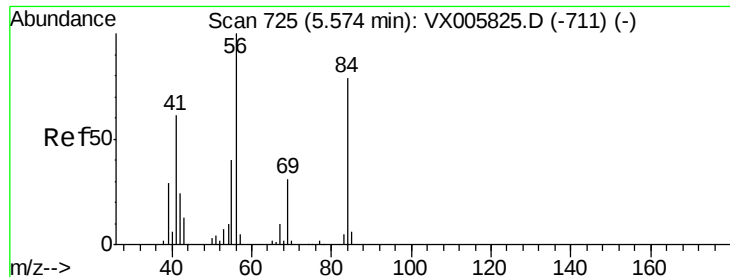
61 137.7 0.0 304.6

98 66.1 0.0 127.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

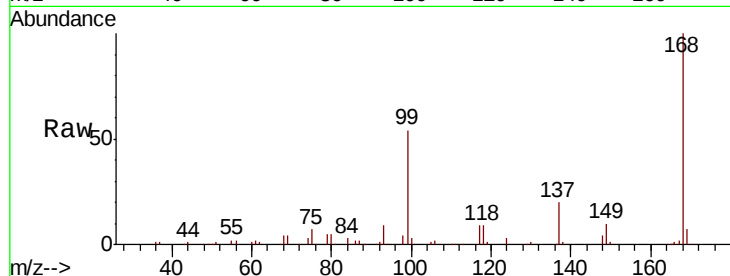




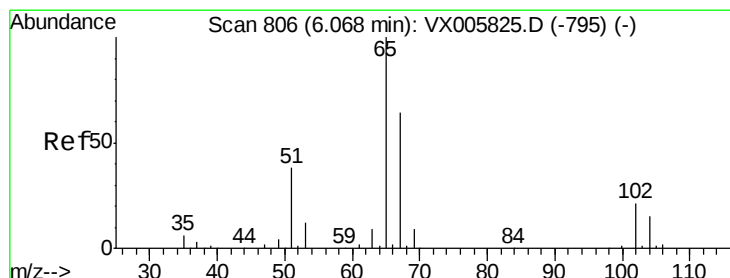
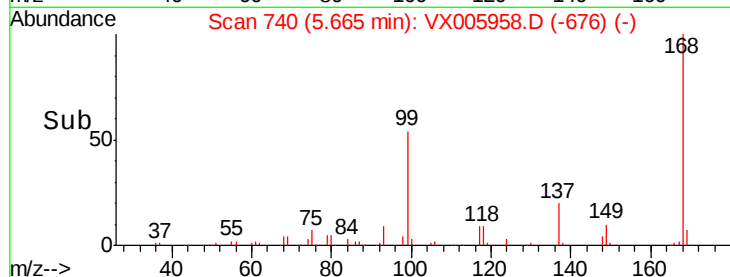
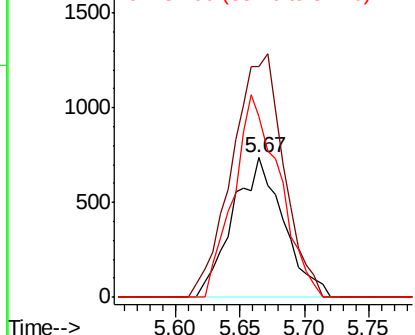
#31
Cyclohexane
Concen: 1.320 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005958.D
Acq: 13 Nov 2018 19:27

Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-181112

Tot Ion: 56 Resp: 2017
Ion Ratio Lower Upper
56 100
69 165.4 22.6 34.0#
84 129.9 62.7 94.1#

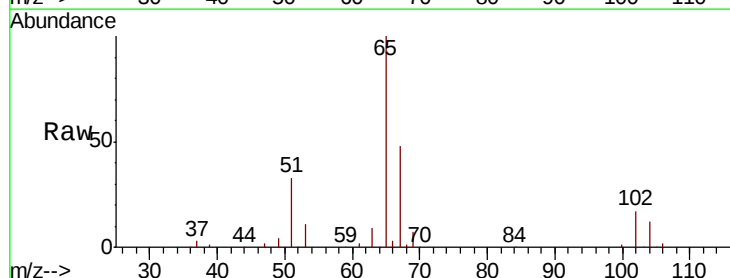


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

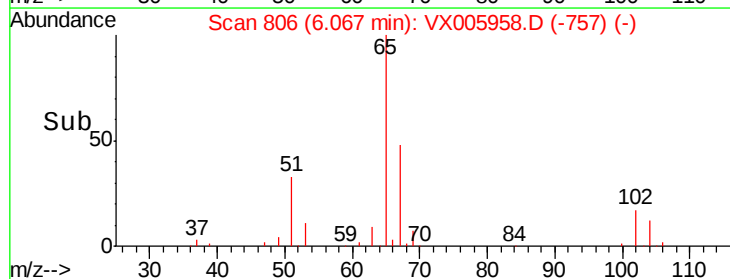
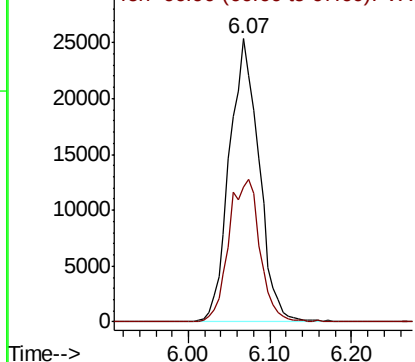


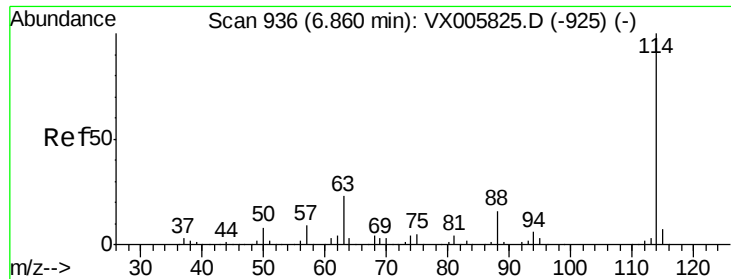
#33
1,2-Dichloroethane-d4
Concen: 57.941 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005958.D
Acq: 13 Nov 2018 19:27

Tgt Ion: 65 Resp: 63543
Ion Ratio Lower Upper
65 100
67 53.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

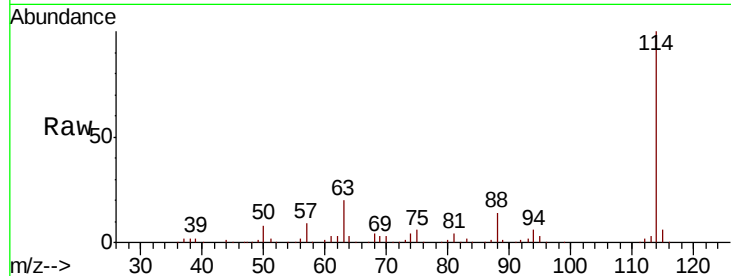




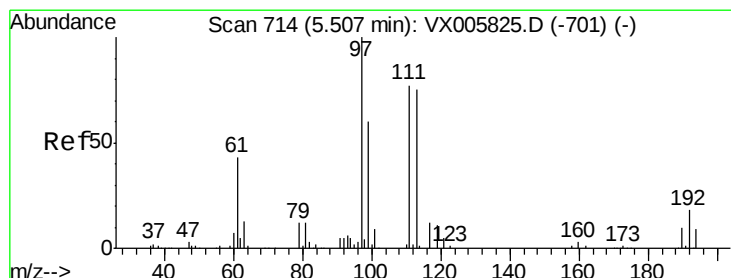
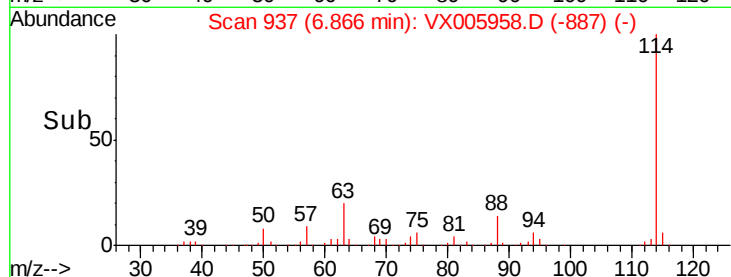
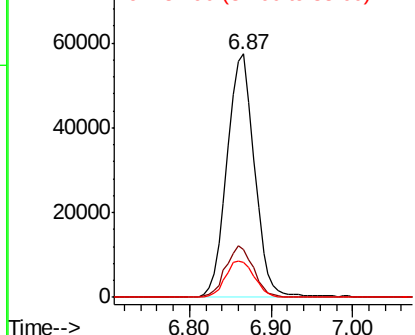
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005958.D
 Acq: 13 Nov 2018 19:27

Instrument :
 MSVOA_X
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 KY038PS027-181112

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	42.8
88	14.5	0.0	31.2

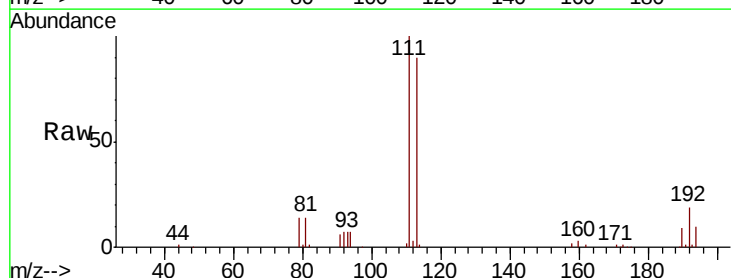


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

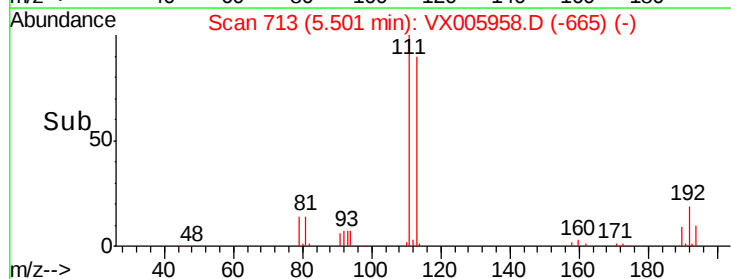
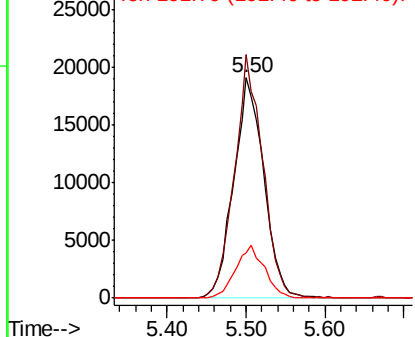


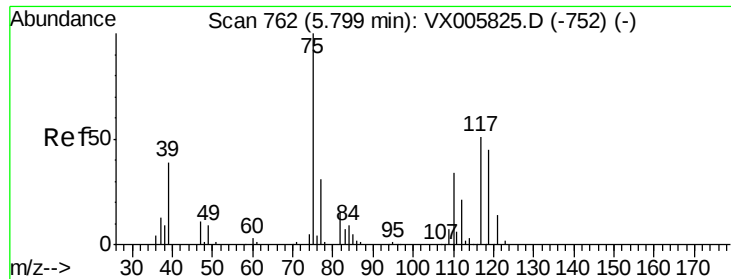
#35
 Dibromofluoromethane
 Concen: 55.745 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.01 min
 Lab File: VX005958.D
 Acq: 13 Nov 2018 19:27

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.3	123.5
192	23.0	17.9	26.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.566 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-181112

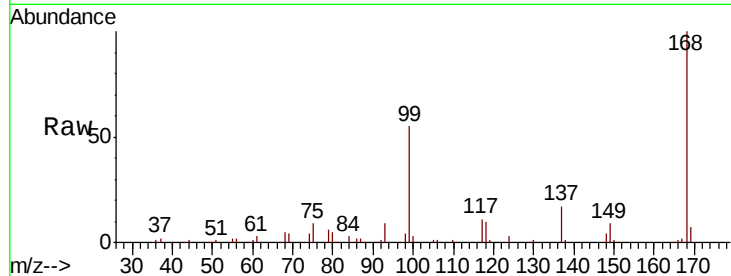
Tot Ion: 75 Resp: 7188

Ion Ratio Lower Upper

75 100

110 5.1 17.4 52.2#

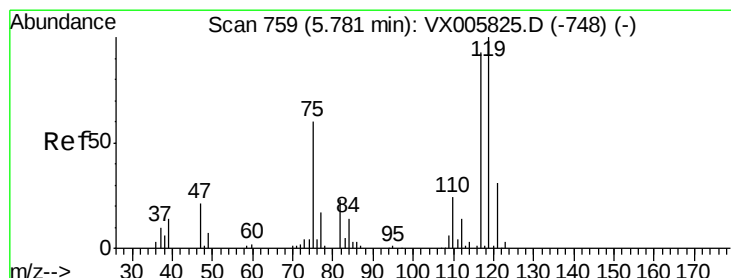
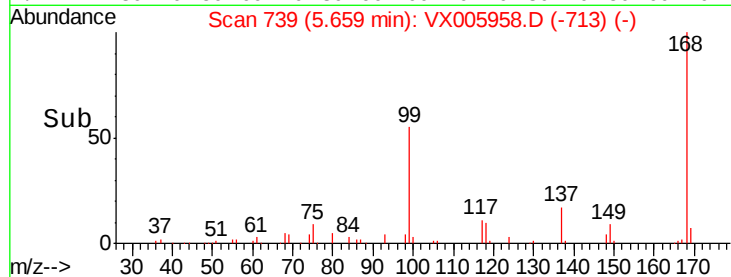
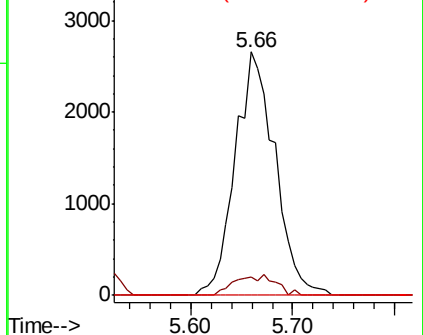
77 0.0 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 7.198 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

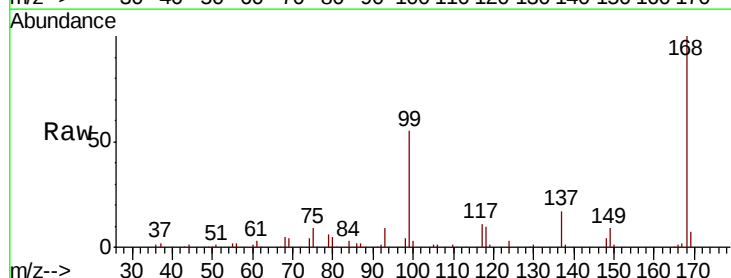
Tgt Ion: 117 Resp: 9306

Ion Ratio Lower Upper

117 100

119 8.0 78.1 117.1#

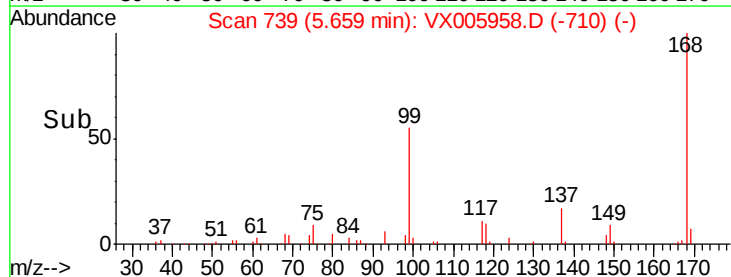
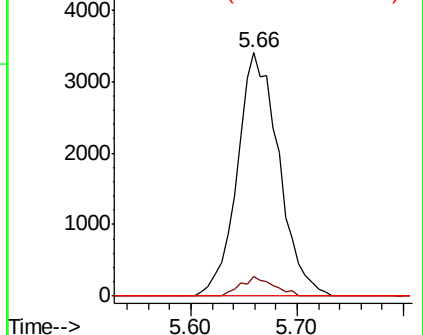
121 0.0 24.6 36.8#

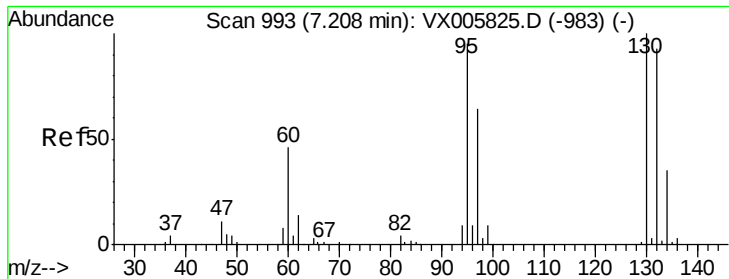


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 4.475 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

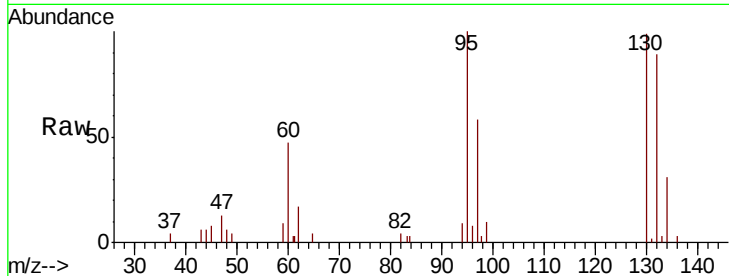
KY038PS027-181112

Tot Ion:130 Resp: 4279

Ion Ratio Lower Upper

130 100

95 100.9 0.0 194.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

2500

2000

1500

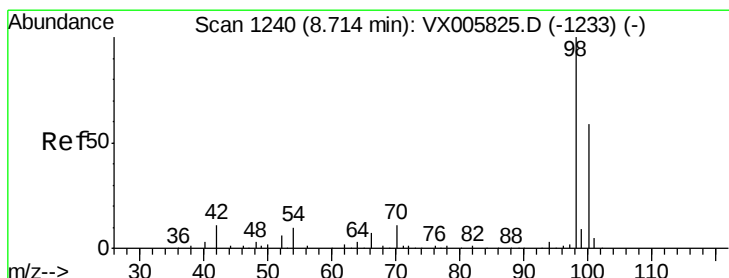
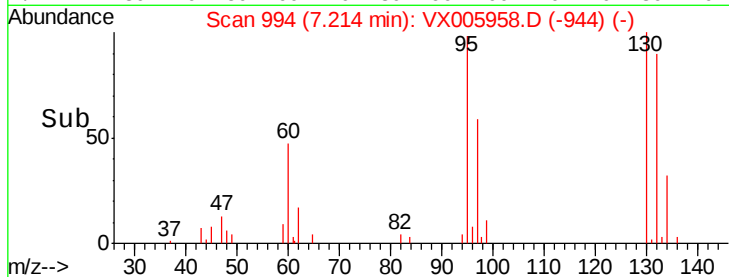
1000

500

0

7.15 7.20 7.25

Time-->



#50

Toluene-d8

Concen: 54.134 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005958.D

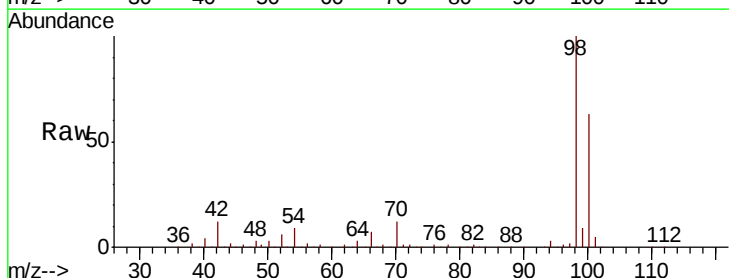
Acq: 13 Nov 2018 19:27

Tgt Ion: 98 Resp: 163984

Ion Ratio Lower Upper

98 100

100 62.9 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

120000

100000

80000

60000

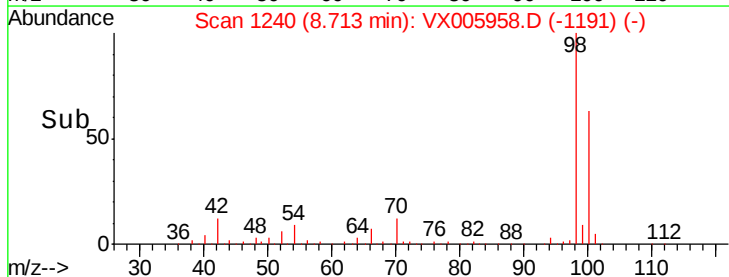
40000

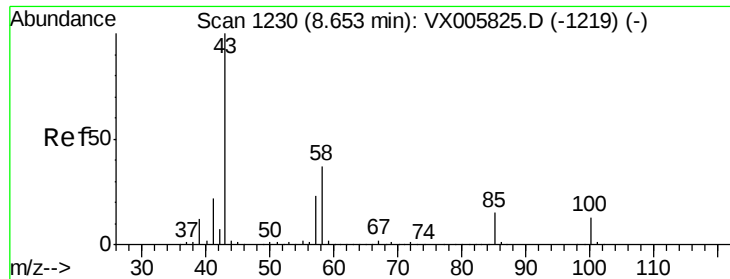
20000

0

8.60 8.70 8.80 8.90

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.519 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

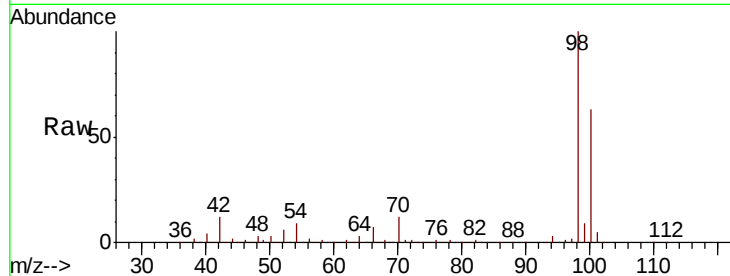
KY038PS027-181112

Tot Ion: 43 Resp: 805

Ion Ratio Lower Upper

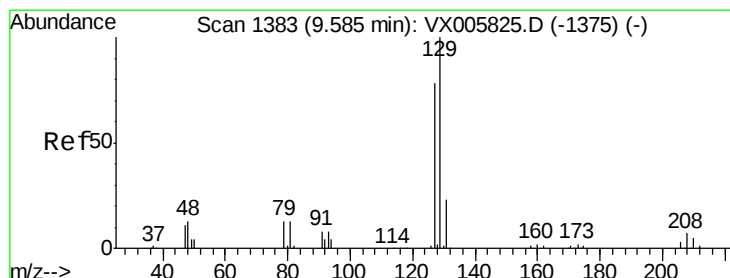
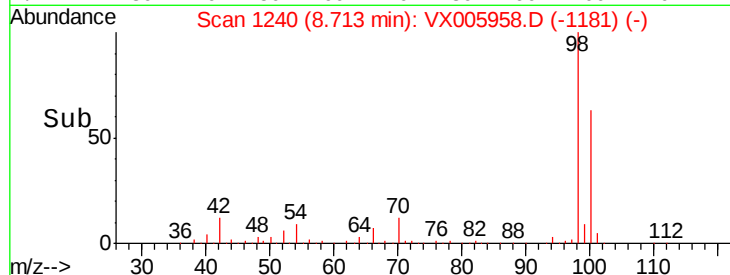
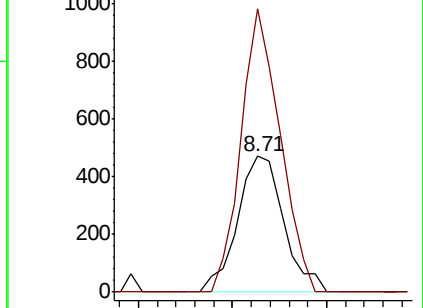
43 100

58 175.2 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 7.059 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX005958.D

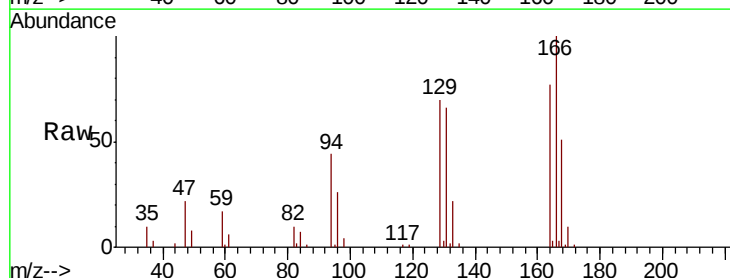
Acq: 13 Nov 2018 19:27

Tgt Ion: 129 Resp: 7154

Ion Ratio Lower Upper

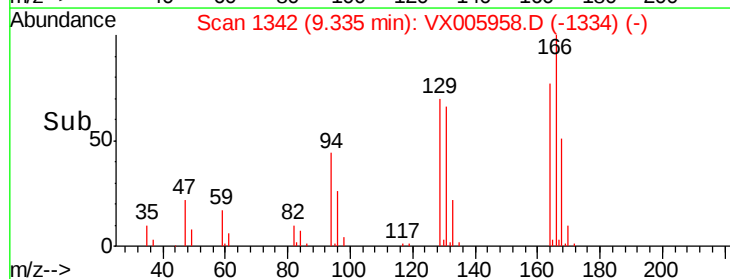
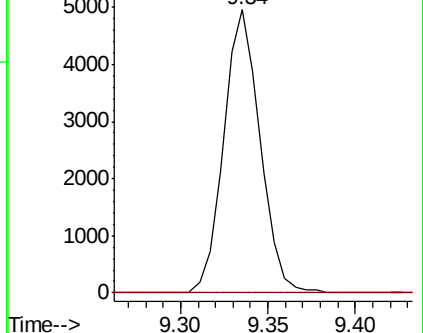
129 100

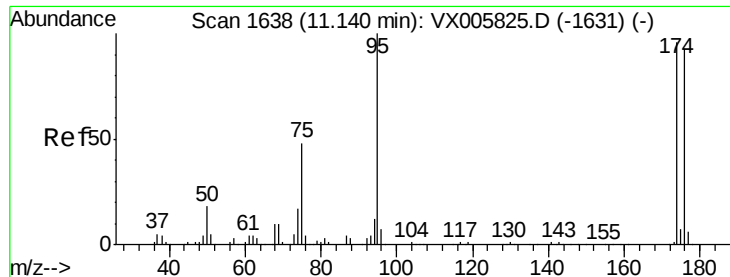
127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 51.227 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-181112

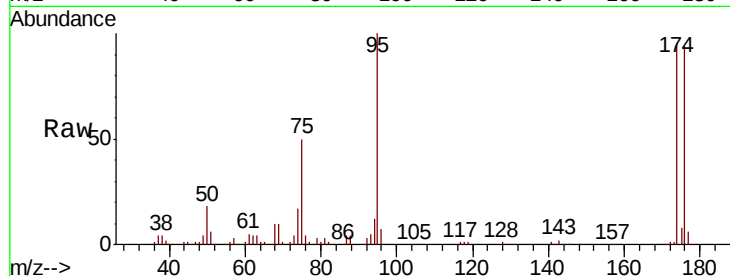
Tot Ion: 95 Resp: 55792

Ion Ratio Lower Upper

95 100

174 92.0 0.0 184.4

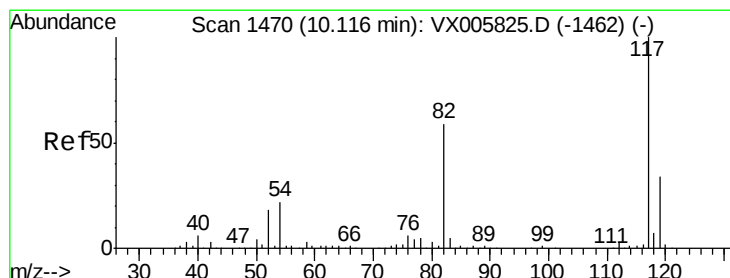
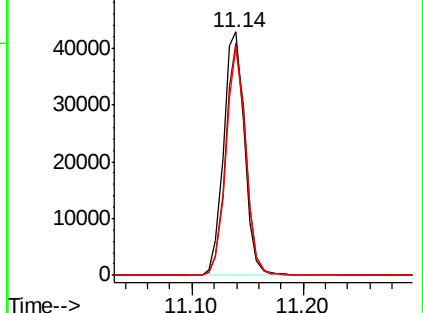
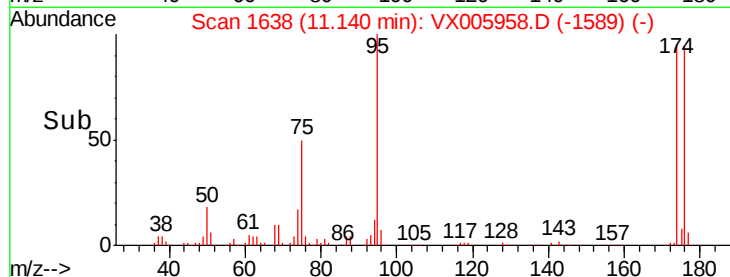
176 88.0 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX005825.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005825.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005825.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

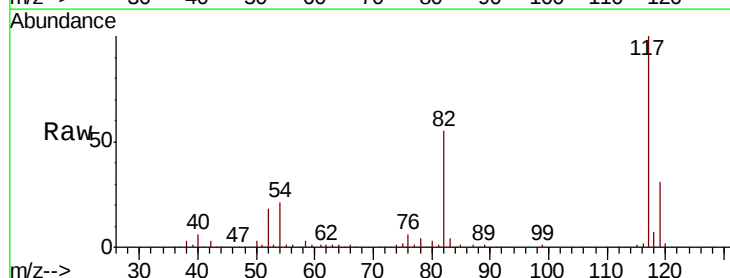
Tgt Ion: 117 Resp: 124862

Ion Ratio Lower Upper

117 100

82 54.6 44.1 66.1

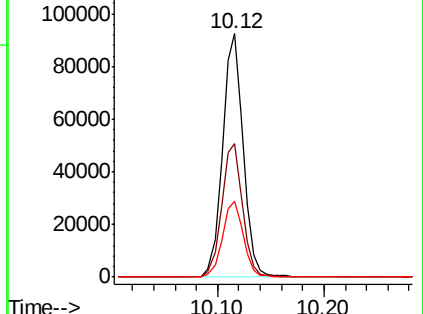
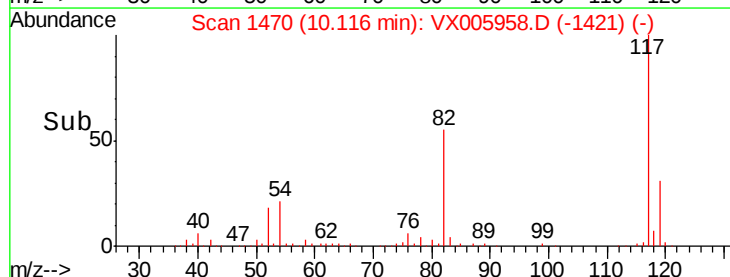
119 31.3 26.2 39.2

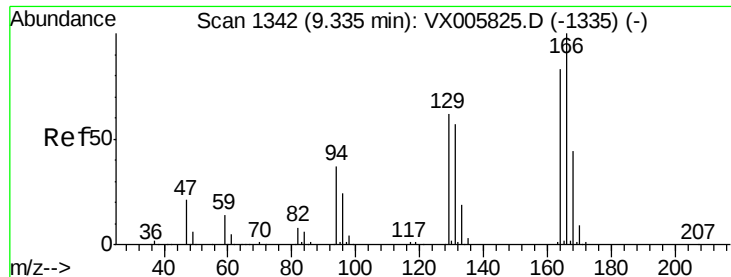


Abundance Ion 116.90 (116.60 to 117.60): VX005825.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005825.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005825.D (-1462) (-)

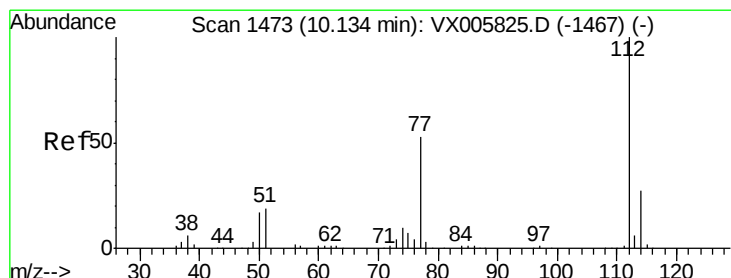
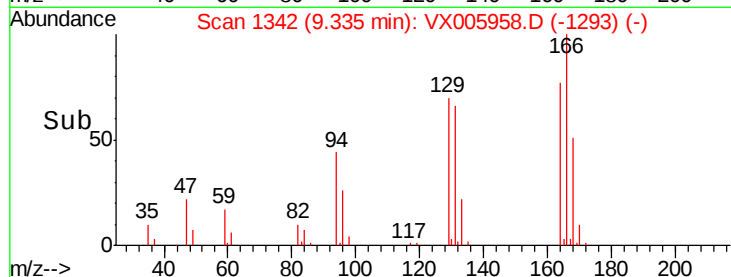
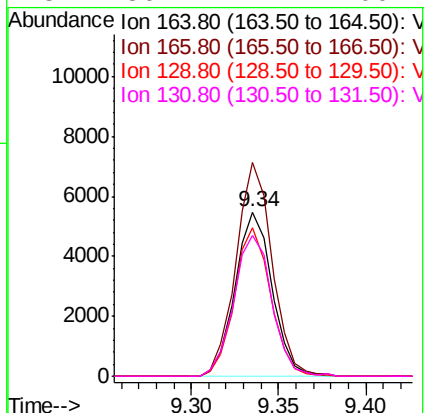
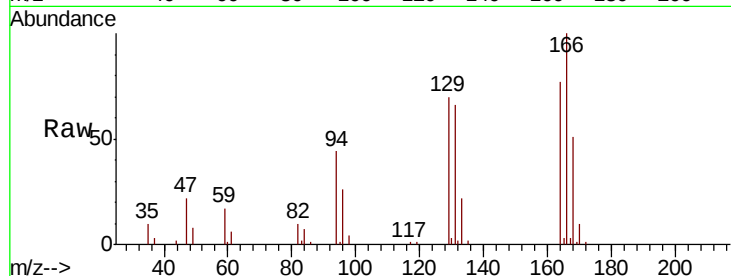




#64
Tetrachloroethene
Concen: 7.598 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX005958.D
Acq: 13 Nov 2018 19:27

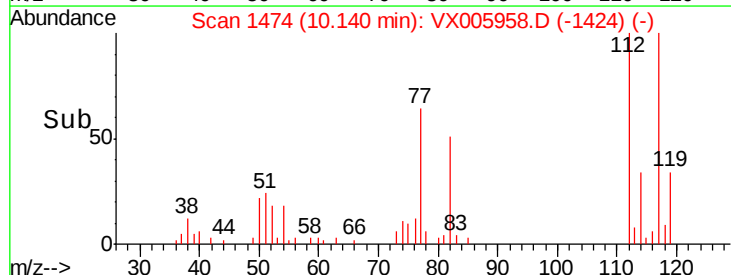
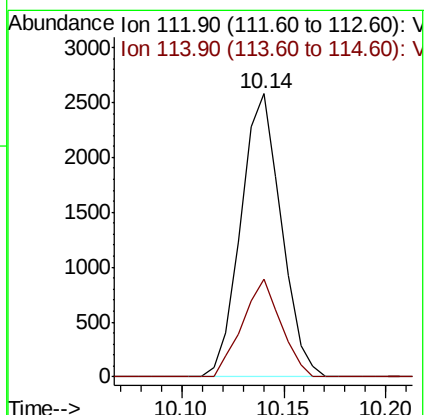
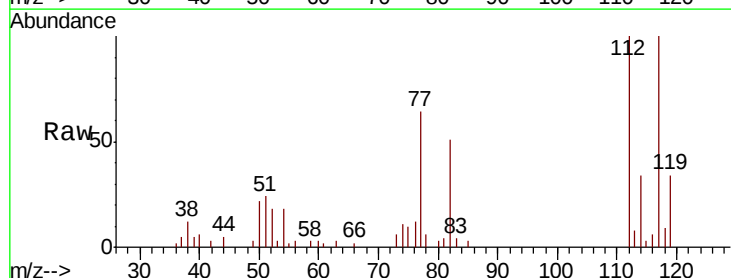
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-181112

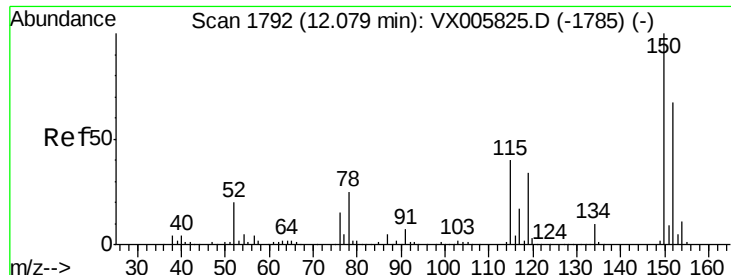
Tot Ion:164 Resp: 8077
Ion Ratio Lower Upper
164 100
166 130.3 101.9 152.9
129 90.6 72.6 109.0
131 86.2 71.1 106.7



#65
Chlorobenzene
Concen: 1.417 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX005958.D
Acq: 13 Nov 2018 19:27

Tgt Ion:112 Resp: 3544
Ion Ratio Lower Upper
112 100
114 34.4 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-181112

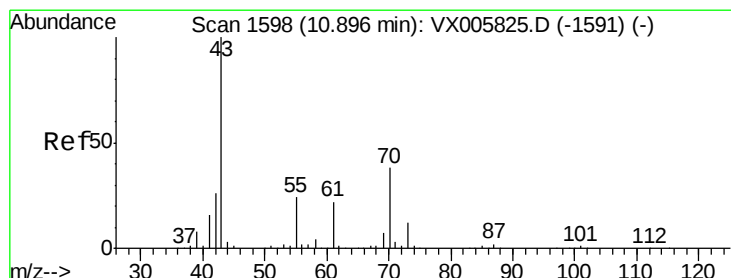
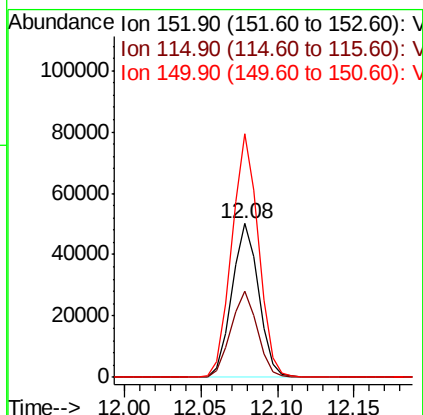
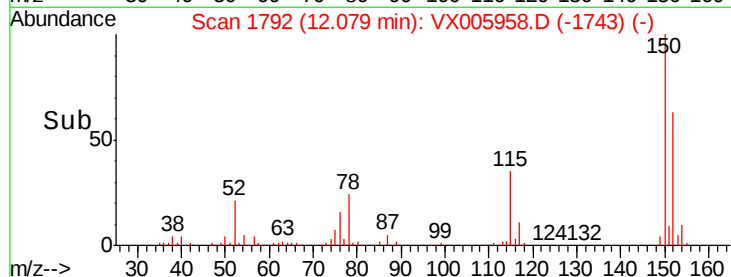
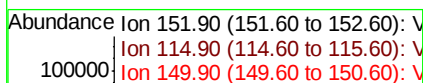
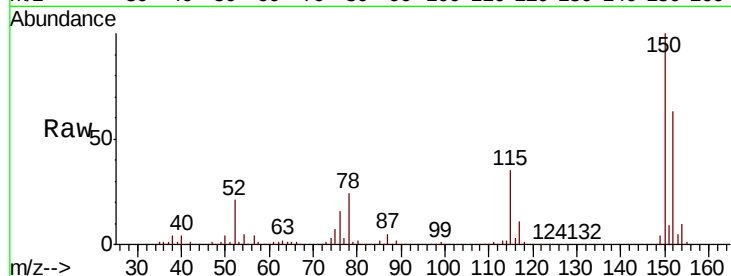
Tot Ion:152 Resp: 60758

Ion Ratio Lower Upper

152 100

115 55.6 39.4 118.1

150 157.7 0.0 346.4



#74

N-ethyl acetate

Concen: 1.260 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Tgt Ion: 43 Resp: 19

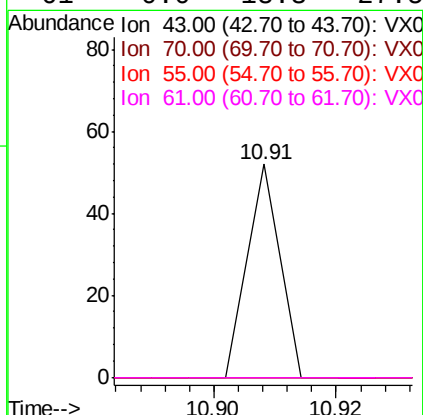
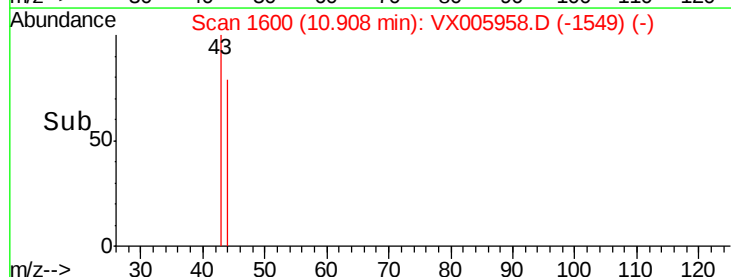
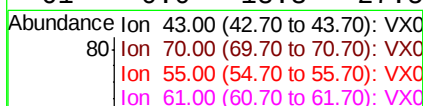
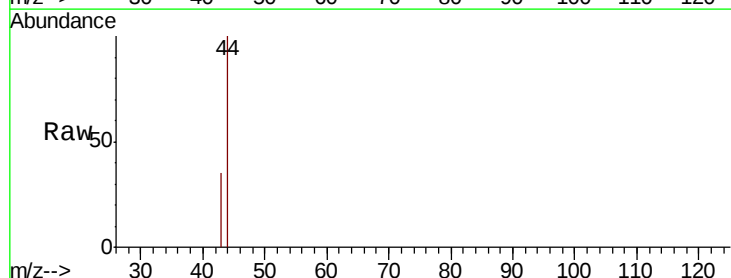
Ion Ratio Lower Upper

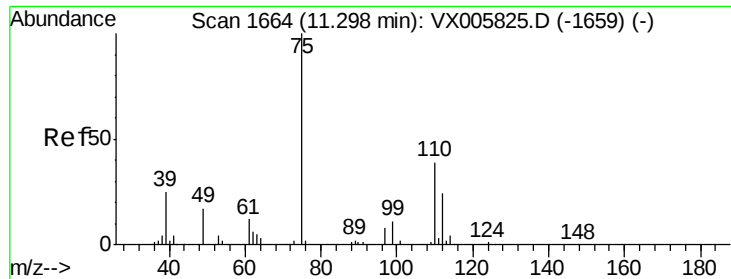
43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#





#76

1,2,3-Trichloropropane

Concen: 22.843 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

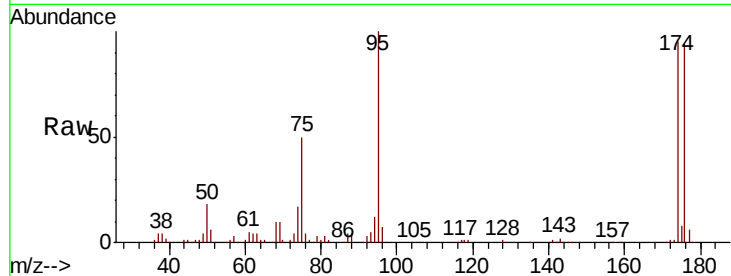
KY038PS027-181112

Tot Ion: 75 Resp: 28260

Ion Ratio Lower Upper

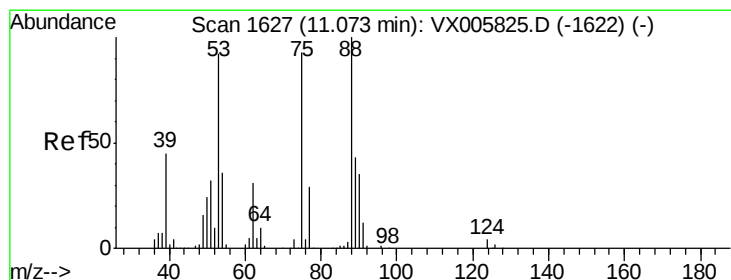
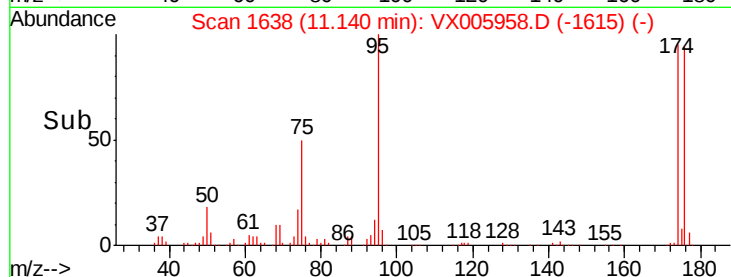
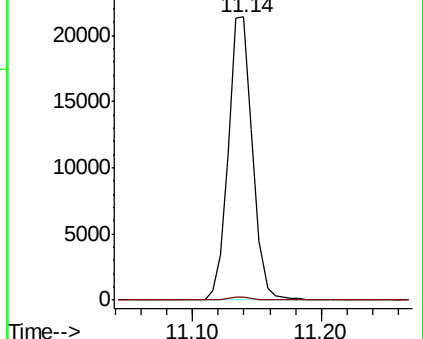
75 100

77 1.3 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 72.803 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

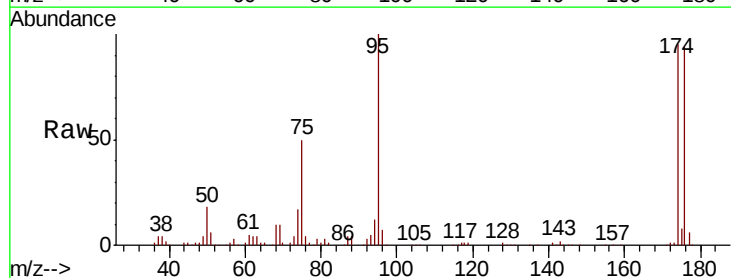
Tgt Ion: 75 Resp: 28260

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

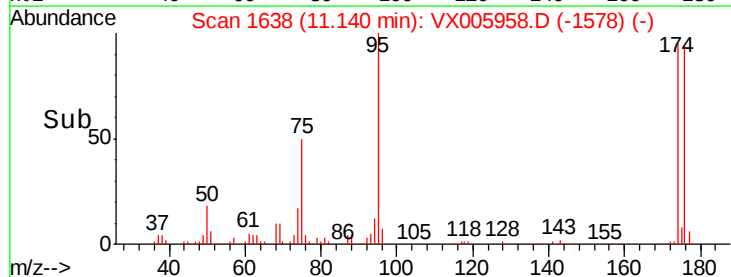
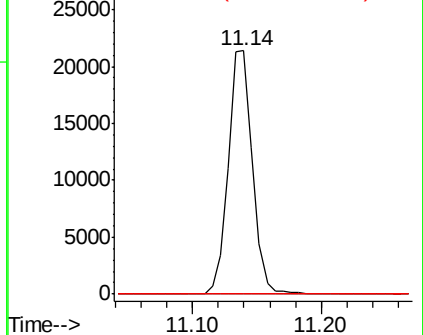
89 0.0 39.8 59.8#

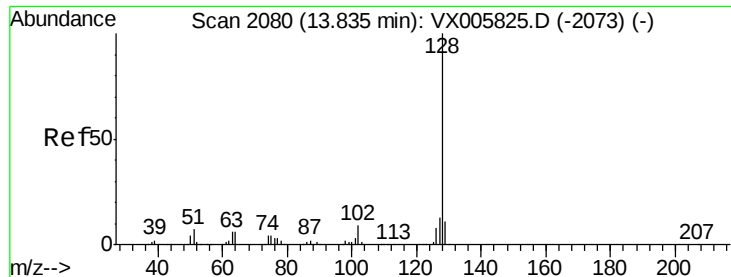


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 1.198 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX005958.D

Acq: 13 Nov 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-181112

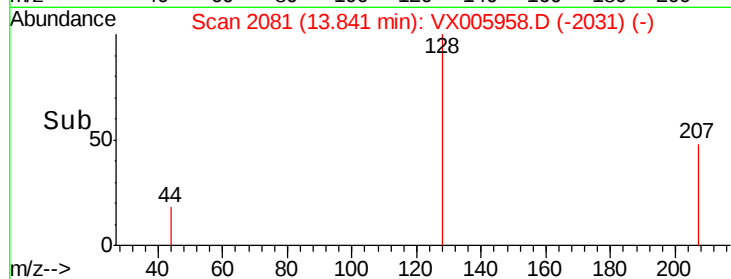
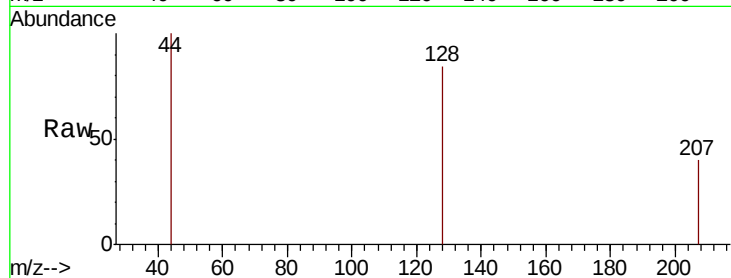
Tot Ion:128 Resp: 92

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

